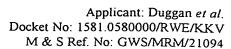


POWER OF ATTORNEY FROM MULTIPLE ASSIGNEES

(1) Microbiological Research Authority a Government: Special Health Authority of Great Britian having a principal place of business at CAMR, Porton Down, Salisbury, Wilshire SP4 01G and (2) The Spevwood Laboratory Limited a corporation of Great Britian having a principal place of business at 14 Kensington Square, London WS 5HH collectively, assignees of the entire right, tide and interest for the United States of America (as defined in 35 U § 100), by reason of an Assignment executed to Assignee (1) on 17 Apr 11/15 May '00 and to Assign on of an invention known as Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugates of Galactose-Binding Lectins and Clost No. 1981. In the Conjugate of Galactose-Binding Lectins and Clost No. 1981. In the Conjugate of Galactose-Binding Lectins and Clost No. 1981. In the Conjugate of Galactose-Binding Lectins and Clost No. 1981. In the Conjugate of Galactose-Binding Lectins and Clost No. 1981. In the U.S. Patent Tademark Office, having Application Number to be assigned (International Filing Date: Octob 1998; International Appl. No. PCT/GB98/03001). The Assignees hereby appoint the following U.S. attorneys to prosecute this application and any continual divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent Trademark Office connected therewith: Robert Green Sterne, Registration No. 28, 121; Edward J. Kes Registration No. 25, 628, 1962. A Goldstein, Registration No. 29, 121; Samuel L. Fox, Registration No. 30, 120, 120, 120, 120, 120, 120, 120, 12		
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Lee, Registration No. 35,239; Steven R. Ludwig, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Lee, Registration No. 35,239; Steven R. Ludwig, Registration No. 36,203; Raz E. Fleshner, Registration 34,331; John M. Covert, Registration No. 38,759; and Linda E. Alcorn, Registration No. 39,588. The Assignereby grant said attorneys the power to insert on this Power of Attorney any further identification that manaccessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office. The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire 100 Gray's Inn Road, London WCIX 8AL 100 Gray's Inn Road, London WCIX 8AL 100 sto any action to be taken in the U.S. Patent and Trademark Office regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whost instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee. Send correspondence to: Sterne, Kessler, Goldstein & Fox P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority Signature Sterne, Sterne, Sterne, Sterne, Goldstein & Fox P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority Signature Sterne, Sterne, Sterne, Sterne, Goldstein & Fox P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. CAMPA	David K.S. Colliwell, Registration No). 31.944; Robert W. Esmond Registration No. 32.803; Trace: Care C.
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Direct phone calls to 202-371-2600. FOR: Microbielogical Research Authority Signature BY: June 2000 FOR: Microbielogical Research Authority Signature Signature Signature BY: June 2000 Jule 2000 Jule 2000 Jule 2000 Jule 2000 Jule 2000 Jule	Lee, Registration No. 35,239: Steven	R. Ludwig Registration No. 36,688; Michael Q.
necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office. The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire 100 Gray's Inn Road, London WCIX 8AL 100 Gray's Inn Road, London WCIX 8AL 100 station to be taken in the U.S. Patent and Trademark Office regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whost ructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee. Send correspondence to: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: JWLARUEL TITLE: STEKLEARY MRA CAMA TITLE: STEKLEARY MRA CAMA	overt, Registration ivi. Covert, Registration ivi.	0. 38. 39; and Linda F. Alcorn Registration No. 20 500. The Assistance
The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire 100 Gray's Inn Road, London WCIX 8AL 101 Is to any action to be taken in the U.S. Patent and Trademark Office regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whostructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee. Send correspondence to: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: TITLE: SECUEDARY MRA CAMA TITLE: Lune 2000	ncicoly granti said attorneys the power t	0 INSERT on this Power of Attorney any further identification that may be
The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire 100 Gray's Inn Road, London WCIX 8AL 11 Is to any action to be taken in the U.S. Patent and Trademark Office regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from which instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee. Send correspondence to: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: TITLE: STEKLEDAY MRA CAMA A June 2000	necessary or desirable in order to comp	ly with the rules of the U.S. Patent and Trademark Office.
Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: TITLE: STERNE STANDAY AND A CAMA June 2000		
Send correspondence to: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: TITLE: STERNE, Loc. Aligne regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in the event of a change in the persons from who is the event of a change in the persons from who is the event of a change in t	Mathys & Source	S. attorneys named herein to accept and follow instructions from
st to any action to be taken in the U.S. Patent and Trademark Office regarding this application without discommunication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whostructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee. Send correspondence to: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: TITLE: SECKSLARY MRA CAMA 2 Lune 2000		AI.
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Send correspondence to: Sterne, Kessler, Goldstein & Fox P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: J. HARVEL 3 Lune 2000	communication octween the 0.5. alloth	eys and the Assignee. In the event of a change in the persons from whom
Sterne, Kessler, Goldstein & Fox P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: J. HARMER TITLE: SECKETARY MRA CAMP.	nstructions may be taken, the U.S. atto	rneys named herein will be so notified by the Assignee.
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Suite 600 Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: JWHARUER TITLE: SECKETARY MRA CAMP 3 June 2000	STERNE, KES	SLER, GOLDSTEIN & FOX P.L.L.C.
Washington, D.C. 20005-3934 U.S.A. Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: JWI HARVER TITLE: SECKETARY MRA CAMP	1100 New Yo	ork Avenue, N.W.
Direct phone calls to 202-371-2600. FOR: Microbiological Research Authority SIGNATURE: BY: JWI HARVEN TITLE: SECKHARY MRA CAMP 3 June 2000		D.C. 20005-2024
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BY: JMHARUER TITLE: SECRETARY MRA (CAMP)		(Cold day
TITLE: SECRETARY MRA (CAMP)	SIGNATURE:	
2 June 2000	BY:	Um Harrier
DATE: 2 June 2000	TITLE:	SECRETARY MRA (CAMP.)
DAIL. ¥	ከ ልጥር.	2 June 2000
	DATE.	-X



FOR:	The Speywood Laboratory Limited
SIGNATURE:	
BY:	
TITLE:	
DATE:	

Declaration for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics, specification of which is attached hereto unless the following box is checked:

was filed on <u>Octobe</u> as United States Appl was amended on	r 7, 1998 ; ication Number or PCT Internation (if applicable)	onal Application Number PCT/GB98/0e).	3001
I hereby state that I have review amended by any amendment re	wed and understand the contents ferred to above.	of the above identified specification, in	cluding the claims, as
		o patentability as defined in 37 C.F.R.	§ 1.56.
inventor's certificate, or § 365(United States listed below, and	 a) of any PCT international appli have also identified below any f 	a)-(d) or § 365(b) of any foreign applic cation, which designated at least one cooreign application for patent or inventor pplication on which priority is claimed	ountry other than the or's certificate, or PCT
Prior Foreign Application(s)			Priority Claimed
Prior Foreign Application(s) 9721189.0 (Application No.)	Great Britain (Country)	October 8, 1997 (Day/Month/Year Filed)	⊠Yes. □ No
(Application No.)	(Country)	(Day/Month/Year Filed)	□ Yes □ No
I hereby claim the benefit unde	r 35 U.S.C. § 119(e) of any Unit	ed States provisional application(s) list	ed below.
(Application No.)	(Filing Date)		
(Application No.)	(Filing Date)		
international application design of this application is not disclo first paragraph of 35 U.S.C. §	nating the United States, listed be sed in the prior United States or I 112, I acknowledge the duty to di e available between the filing dat	States application(s), or under § 365(c) low and, insofar as the subject matter of CT international application in the massclose information that is material to pe of the prior application and the nation	of each of the claims nner provided by the atentability as defined
(Application No.)	(Filing Date)	(Status - patented, per	nding, abandoned)
(Application No.)	(Filing Date)	(Status - patented, per	nding, abandoned)



Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	Michael John DUGGAN	
Signature of sole or first inventor		Date
Residence	London, United Kingdom	
Citizenship	United Kingdom	
Post Office Address	27a, Moreton Place, London, SW1V 2NL, United Kingdor	n
Full name of second inventor $\mathcal{J}-\!\omega$	John <u>Andrew CHADDOCK</u>	
Signature of second inventor	AAlhaddoch) Date 17/4/00
Residence	Hampshire, United Kingdom GBX	
Citizenship	United Kingdom	
Post Office Address	AX 43 BOCKNERS WAY, SAUSA 37, Thumpwood, Chineham, Basingstoke, Hampshire, RG2	4 8TE, United Kingdom
		SPZ BRW UK

P:\USERS\\vidovic\1581\0580000\dec SKGF Rev. 9/2/98 mac (Supply similar information and signature for subsequent joint inventors, if any)





Declaration for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled_ Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics, specification of which is attached hereto unless the following box is checked:

	as United State	October 7, 1998 ; es Application Number or PCT Internation on (if applicable)	al Application Number PCT /GB98 /Q	3001
		ve reviewed and understand the contents of	the above identified specification, in	cluding the claims, as
W Vi	I acknowledge the duty	to disclose information that is material to	patentability as defined in 37 C.F.R.	§ 1.56.
- -	inventor's certificate, or United States listed bel	priority benefits under 35 U.S.C. § 119(a)- r § 365(a) of any PCT international applications, and have also identified below any for a having a filing date before that of the applications.	ation, which designated at least one co reign application for patent or invento	ountry other than the or's certificate, or PCT
: Cj	Prior Foreign Applicati	ion(s)		Priority Claimed
	9721189.0 (Application No.)	Great Britain (Country)	October 8, 1997 (Day/Month/Year Filed)	⊗Yes □ No
	(Application No.)	(Country)	(Day/Month/Year Filed)	□ Yes □ No
	I hereby claim the bene	efit under 35 U.S.C. § 119(e) of any United	l States provisional application(s) list	ed below.
	(Application No.)	(Filing Date)		
	(Application No.)	(Filing Date)		
	international application of this application is no first paragraph of 35 U	efit under 35 U.S.C. § 120 of any United Son designating the United States, listed below the disclosed in the prior United States or POS.C. § 112, I acknowledge the duty to discust became available between the filing date of this application.	ow and, insofar as the subject matter of CT international application in the ma close information that is material to p	of each of the claims nner provided by the atentability as defined
	(Application No.)	(Filing Date)	(Status - patented, per	nding, abandoned)
	(Application No.)	(Filing Date)	(Status - patented, per	nding, abandoned)

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934

Direct Telephone Calls to:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

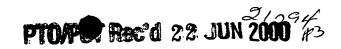
Full name of sole or first inventor	1-00	Michael John DUGGAN	
Signature of sole or first inventor	X	X15May 200 Date	e
Residence	/\)°	London, United Kingdom CBX	
Citizenship		United Kingdom	
Post Office Address		IGA ST GEORGES DRIVE, LONDON SWIV HI	BL /
Post Office Address			
Full name of second inventor	7	John Andrew CHADDOCK	
Signature of second inventor		Date	•
Residence		Hampshire, United Kingdom	
Citizenship		United Kingdom	
Post Office Address		37, Thumbwood, Chineham, Basingstoke, Hampshire, RG24 8TE, United Kingo	dom

P:\USERS\kvidovic\1581\0580000\dec SKGF Rev. 9/2/98 mac (Supply similar information and signature for subsequent joint inventors, if any)

POWER OF ATTORNEY FROM MULTIPLE ASSIGNEES

(1) Microbiological Research Autho	rity, a Government: Special Health Authority of Great Britian
maving a principal place of ousiness	I CAMR. Porton Down Salishury Wiltehire CD4 010
and (2) The Speywood Laboratory L	Imited a corporation of Great Prition
having a principal place of business	at 14 Kensington Square London Wo start
collectively, assignees of the entire rig	ht, title and interest for the United States of America (and Service of
3 100), by reason of an Assignment e	XECHIED TO A SSIGNER (1) on 1 / ADY 1 / 15 May 100
on an in	vention known as Conjugates of Galactose-Binding Lectins and Clostridis
redictioning as Allargesics	(Affordev Docket No. 1501 0500000 participation of the contraction of
CHADDOCK	the same title by the inventors Michael John DUGGAN, and John Andrey
SIN B C CIL	(Cold application El-J 11 77 a p
1998; International Appl. No. PCT/G	Cation Number to be assigned (International Filing Data, October 7
1990, Mechadollar Appl. No. PC1/G	D98/U3UU1).
Trademark Office connected therewise Registration No. 25,688; Jorge A. Gol	lowing U.S. attorneys to prosecute this application and any continuation ssue application thereof, and to transact all business in the U.S. Patent and th: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, dstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; o. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G.
33,997; Robert E. Sokohl, Esquire Re, Lee, Registration No. 35,239; Steven 34,331; John M. Covert, Registration No. Pereby grant said attorneys the power necessary or desirable in order to comp	gistration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. R. Ludwig, Registration No. 36,203; Raz E. Fleshner, Registration No. No. No. 38,759; and Linda E. Alcorn, Registration No. 39,588. The Assignees to insert on this Power of Attorney any further identification that may be olly with the rules of the U.S. Patent and Trademark Office.
racing the beguine	S. attorneys named herein to accept and follow instructions from
00 Gray's Inn Road, London WCIX 8	AL
and the contract of the contra	Patent and Trademark Office regarding this application without direct neys and the Assignee. In the event of a change in the persons from whom orneys named herein will be so notified by the Assignee.
Send correspondence to:	
Sterne, Ke	SSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New Y	ork Avenue, N.W.
Suite 600	
	D.C. 20005-3934
U.S.A.	
Direct phone calls to 202-371-	2600.
FOR:	Microbiological Research Authority
SIGNATURE:	
BY:	
TITLE:	
DATE:	

FOR:	The Speywood Laboratory Limited	
SIGNATURE:	Modis	
BY:	John Charles DAVIS	
TITLE:	Congany Secretary	
DATE:	2 June 2000	



Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Michael John DUGGAN, John Andrew CHADDOCK
Int'l. Appl. No: PCT/GB98/03001 Filed/Issue Date: October 7, 1998
Entitled: Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics
The Speywood Laboratory Limited, a corporation (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. [] the assignee of the entire right, title, and interest, or
2. [X] an assignee of an undivided part interest
in the patent application/patent identified above by virtue of either:
A. [X] An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. OR
B. [] A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
1. From: To: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
2. From: To: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
3. From: To:
The document was recorded in the Patent and Trademark Office at Ree!, Frame, or for which a copy thereof is attached.
[] Additional documents in the chain of title are listed on a supplemental sheet.
[X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
Date: 2 June '2000
Name: John Chales DAVIS
Name: John Chales DAVIS Title: Company Secretary
Signature: Walis

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Michael John DUGGAN, John Andrew CHADDOCK , the undersigned inventor(s) hereby sell(s) and assign(s) to Microbiological Research Authority and The Speywood Laboratory Limited (the Assignees) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

- (a) in the invention(s) known as Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics for which application(s) for patent in the United States of America has (have) been executed by the undersigned on //////OO (also known as International Application No. PCT/GB98/03001 , filed October 7, 1998), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

DO NUI FUNWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

Applicant: Duggan et al. Docket No: 1581.0580000/RWE/KKV M & S Ref. No: GWS/MRM/21094

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; Raz E. Fleshner, Esquire, Registration No. 34,331; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:		Signature of Inventor:	Michael John DUGGAN	
Date:	× 17/4/00	Signature of Inventor: _	John Andréw CHADDOCK	×

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Michael John DUGGAN, John Andrew CHADDOCK , the undersigned inventor(s) hereby sell(s) and assign(s) to Microbiological Research Authority and The Speywood Laboratory Limited (the Assignees) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es)

✓ for the United States of America (as defined in 35 U.S.C. § 100),

✓ and throughout the world,

- (a) in the invention(s) known as Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (also known as International Application No. PCT/GB98/03001, filed October 7, 1998), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; Raz E. Fleshner, Esquire, Registration No. 34,331; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:	x 15 May 2000	Signature of Inventor:	Michael John DUGGAN	
Date:		Signature of Inventor:	John Andrew CHADDOCK	

43

015.PTO

OPCT Rec'd 22 JUN 2011
Applicant: Duggan et al.
Docket No: 1581.0580000/RWE/KKV

M & S Ref. No: GWS/MRM/21094

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Michael John DUGGAN, John Andrew CHADDOCK
Application No./Patent No.: Int'l, Appl. No. PCT/GB98/03001 Filed/Issue Date: October 7, 1998
Entitled: Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics
Microbiological Research Authority, a Government: Special Health Authority (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. [] the assignee of the entire right, title, and interest, or
2. [X] an assignee of an undivided part interest
in the patent application/patent identified above by virtue of either:
A. [X] An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. OR
B. [] A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
1. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
2. From:To:To:To multiple document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
3. From: To:
[] Additional documents in the chain of title are listed on a supplemental sheet.
[X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
Date: 2 June 2000
Name: JM HARKER
Title: SECRETARY MARA (CAME)
Signature:

2/094 Vard Branch #3

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Michael John DUGGAN, John Andrew CHADDOCK , the undersigned inventor(s) hereby sell(s) and assign(s) to Microbiological Research Authority and The Speywood Laboratory Limited (the Assignees) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

- (a) in the invention(s) known as Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 17/4/00 (also known as International Application No. PCT/GB98/03001 , filed October 7, 1998), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

DO NOT FUNWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

Applicant: Duggan et al. Docket No: 1581.0580000/RWE/KKV M & S Ref. No: GWS/MRM/21094

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; Raz E. Fleshner, Esquire, Registration No. 34,331; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:		Signature of Inventor:		
			Michael John DUGGAN	_
Date:	× 17/4/00	Signature of Inventor:	John Andrew CHADDOCK	_ ×

ASSIGNMENT

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check applicable box(es)

✓ for the United States of America (as defined in 35 U.S.C. § 100),

✓ and throughout the world,

- (a) in the invention(s) known as Conjugates of Galactose-Binding Lectins and Clostridial Neurotoxins as Analgesics for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (also known as International Application No. PCT/GB98/03001, filed October 7, 1998), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date:	x 15 May 2000	Signature of Inventor:	Michael John DUCOAN
Date:		Signature of Inventor:	,
			John Andrew CHADDOCK